```
ISIS-II PL/M-86 V2.0 COMPILATION OF MODULE MAINP
OBJECT MODULE PLACED IN MAINP.OBJ
COMPILER INVOKED BY:  :F0: MAINP.PLM DEBUG OPTIMIZE(2) DATE(FEBRUARY 2, 1982) XREF


                $title ('ASM86 MAIN PROGRAM')
  1             mainp:
                do;
                /*

                      This is the main program of the CP/M 8086
                      assembler. This module activates the i/o
                      modules and goes through the source text
                      in 3 passes. The module then for each source
                      line calls the external subroutine DECODELINE
                      to perform assembly of each line;
                */

                /*

                   modified  3/25/81  R. Silberstein
                   modified  3/28/81  R. Silberstein
                   modified  3/30/81  R. Silberstein
                   modified  4/7/81   R. Silberstein
                   modified  4/20/81  R. Silberstein
                   modified  6/16/81  R. Silberstein
                   modified  7/24/81  R. Silberstein
                   modified  7/27/81  R. Silberstein
                   modified  8/21/81  R. Silberstein

                */

                $include (:f1:macro.lit)
              = $nolist
                $include (:f1:struc.lit)
              = $nolist
                $include (:f1:equals.lit)
              = $nolist
                $include (:f1:dev.lit)
              = $nolist
                $include (:f1:ermod.lit)
              = $nolist
                $include (:f1:subr2.ext)
              = $nolist
                $include (:f1:io.ext)
              = $nolist
                $include (:f1:files.ext)
              = $nolist
                $include (:f1:outp.ext)
              = $nolist
                $include (:f1:scan.ext)
              = $nolist
                $include (:f1:print.ext)
              = $nolist
                $include (:f1:symb.ext)
              = $nolist
```

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```
            $include (:f1:ermod.ext)
        =   $nolist
            $include (:f1:mglob.ext)
        =   $nolist
            $include (:f1:text.ext)
        =   $nolist
            $include (:f1:dline.ext)
        =   $nolist

218   1     DECLARE ASM86 LABEL PUBLIC;

219   1     closefiles: procedure;
220   2       call close$source;
221   2       call close$print;
222   2       call close$symbol;
223   2       call close$hex;
224   2     end closefiles;

225   1     open$output$files: procedure;
226   2       CALL OPENPRINT;
227   2       CALL OPENHEX;
228   2       CALL OPENSYMBOL;
229   2     end open$output$files;

230   1     userbreak: proc byte;  /* test if Keyboard break from user */
231   2       if not constat then return false; /* test console status */
233   2       if readconsole then;  /* skip first break key */
235   2       do forever;
236   3         call outtext(.usbreaktext); /* USER BREAK. OK (Y/N)? */
237   3         i=upper(readconsole);
238   3         call crlf;
239   3         if i = yes then return true;
241   3         if i = no then return false;
            end$forever;
244   2     end userbreak;

245   1     varinit: proc;
246   2       CALL FILL (0, .PRINT$ON-.CIP, .CIP);
247   2       errors=0;
248   2       printswitchoff,includeon=false;
249   2       IFLEVEL = 0;
250   2       IFLIST = TRUE;
251   2       csegtype=rcs;
252   2     end varinit;

253   1     pass0init: proc;  /* initialize pass 0 */
254   2       simform=false;
255   2       maxcol=119;
256   2       if printdevice=console then maxcol=79;
258   2       call symbinit;  /* initialize symbol table */
259   2       print$on=false;
260   2       call varinit;
261   2     end pass0init;

262   1     pass1init: proc;  /* initialize for pass 1 */
263   2       call varinit;
264   2     end pass1init;
```

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265  1     pass2init: proc;  /* initialize for pass 2 (last pass) */
266  2       print$on=true;
267  2       call varinit;
268  2       call emitinit;
269  2     end pass2init;

270  1     pass0terminate: proc;  /* terminate pass 0 */
271  2       call outtext(.pass0text);  /* End of pass 0 */
272  2     end pass0terminate;

273  1     pass1terminate: proc;  /* terminate pass 1 */
274  2       print$on=false;      /* dummy */
275  2       call outtext(.pass1text);  /* End of pass 1 */
276  2     end pass1terminate;

277  1     pass2terminate: proc;  /* terminate pass 2 (last pass) */
278  2       DECLARE USEFACT BYTE;
279  2       USEFACT = (FREEPT-.MEMORY) / ((ENDOFSYMBTAB-.MEMORY) / 100 + 1);
280  2       errorprinted=false;
281  2       call emitterminate;    /* terminate hex output module */
282  2       call symbterminate;    /* print symbols */
283  2       if printdevice <> console then call printterminate (USEFACT);
285  2       CALL CLOSEFILES;
286  2       call outtext(.endtext);  /* END OF ASSEMBLY... */
287  2       call decout(errors,.help(0));  /* print no of errors */
288  2       call outtext(.help(2));
289  2       CALL OUTTEXT (.USEFACTOR);
290  2       CALL DECOUT (USEFACT, .HELP(0));
291  2       CALL OUTTEXT (.HELP(3));
292  2       CALL WRITECONSOLE (25H);   /* % */
293  2       CALL CRLF;
294  2     end pass2terminate;

295  1     include$close: proc (flag);
296  2       declare flag byte;
297  2       if eofset and include$on then$do
299  3         call close$include;
300  3         include$on,eofset=false;
301  3         if flag then$do
303  4           call scan;       /* skip EOF */
304  4           call scan;       /* prepare for next source line */
305  4         end$if;
            end$if;
307  2     end include$close;

308  1     ASM86:

            call globalinit;      /* initialize some globals */

309  1     call outtext(.asm86text); /* CP/M 8086 ASSEMBLER.... */

310  1     if not filesetup then$do
312  2       call outtext(.parerrtext);  /* PARAMETER ERROR */
313  2       CALL SYSTEMRESET;
314  2     end$if;
```

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```
315  1     CALL OPENSOURCE;

316  1     CALL OPENOUTPUTFILES;

317  1     pass=0ffh;
318  1     do while (pass:=pass+1) < 3;
319  2       do case pass;
320  3         call pass0init;    /* pass 0 */
321  3         call pass1init;    /* pass 1 */
322  3         call pass2init;    /* pass 2 */
323  3       end$case;
324  2       call scaninit;
325  2       call scan;
326  2       do while not eofset;
327  3         if userbreak then$do
329  4           eofset=true;
330  4           pass=3;
331  4         else$do
333  4           errorprinted=false;
334  4           call decodeline;
335  4           call includeclose(false);  /* close include file if necessary */
336  4           call scan;
337  4           call includeclose(true);  /* close include file if necessary */
338  4         end$if;
339  3       end$while;
340  2       do case pass;
341  3         call pass0terminate;  /* pass 0 */
342  3         call pass1terminate;  /* pass 1 */
343  3         call pass2terminate;  /* pass 2 */
344  3         do; end;              /* do nothing if userbreak */
346  3       end$case;
347  2     end$while;

348  1     call system$reset;

349  1     end$module mainp;
```

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CROSS-REFERENCE LISTING

DEFN	ADDR	SIZE	NAME, ATTRIBUTES, AND REFERENCES
2			ADDR . . . . . LITERALLY 12 18 36 39 42 45 138 179 180 186 189 192 195 198 201 204 207 212
26	0000H		ALPHANUMERIC . . . PROCEDURE BYTE EXTERNAL(5) STACK=0000H
29	0000H		ASCIICHAR. . . . . PROCEDURE BYTE EXTERNAL(6) STACK=0000H
206	0000H	2	ASCIIPTR . . . . . WORD PARAMETER 207
218	0010H		ASM86. . . . . LABEL PUBLIC 308
215	0000H	1	ASM86TEXT. . . . . BYTE ARRAY(1) EXTERNAL(106) 309
3			BASEREGBIT . . . . LITERALLY
3			BASEREGCOUNT . . . LITERALLY
3			BREGBIT. . . . . LITERALLY
3			BREGCOUNT. . . . . LITERALLY
5			BYT. . . . . LITERALLY
23	0000H	1	CH . . . . . BYTE PARAMETER 24
163	0000H	1	CH . . . . . BYTE PARAMETER 164
102	0000H	1	CH . . . . . BYTE PARAMETER 103
146	0000H	1	CH . . . . . BYTE PARAMETER 147
26	0000H	1	CH . . . . . BYTE PARAMETER 27
17	0000H	1	CH . . . . . BYTE PARAMETER 18
29	0000H	1	CH . . . . . BYTE PARAMETER 30
20	0000H	1	CH . . . . . BYTE PARAMETER 21
105	0000H	1	CH . . . . . BYTE PARAMETER 106
32	0000H	1	CH . . . . . BYTE PARAMETER 33
108	0000H	1	CH . . . . . BYTE PARAMETER 109
64	0000H	1	CHAR . . . . . BYTE PARAMETER 65
61	0000H	1	CHAR . . . . . BYTE PARAMETER 62
212	0000H	2	CIP. . . . . WORD EXTERNAL(83) 246
215	0000H	1	CLOSEERRTEXT . . . BYTE ARRAY(1) EXTERNAL(112)
80	0000H		CLOSEFILE. . . . . PROCEDURE BYTE EXTERNAL(27) STACK=0000H
219	00CDH	17	CLOSEFILES . . . . PROCEDURE STACK=0004H 285
131	0000H		CLOSEHEX . . . . . PROCEDURE EXTERNAL(48) STACK=0000H 223
129	0000H		CLOSEINCLUDE . . . PROCEDURE EXTERNAL(47) STACK=0000H 299
133	0000H		CLOSEPRINT . . . . PROCEDURE EXTERNAL(49) STACK=0000H 221
125	0000H		CLOSESOURCE. . . . PROCEDURE EXTERNAL(45) STACK=0000H 220
135	0000H		CLOSESYMBOL. . . . PROCEDURE EXTERNAL(50) STACK=0000H 222
4			CODE . . . . . LITERALLY
10			CODEMACROERR . . . LITERALLY
3			CODEMACROHEAD. . . LITERALLY
9			CONSOLE. . . . . LITERALLY 256 283
67	0000H		CONSTAT. . . . . PROCEDURE BYTE EXTERNAL(22) STACK=0000H 231
2			CR . . . . . LITERALLY
92	0000H		CREATEFILE . . . . PROCEDURE BYTE EXTERNAL(31) STACK=0000H
100	0000H		CRLF . . . . . PROCEDURE EXTERNAL(34) STACK=0000H 238 293
212	0000H	1	CSEGTYPE . . . . . BYTE EXTERNAL(84) 251
44	0000H	2	D. . . . . WORD PARAMETER 45
41	0000H	2	D. . . . . WORD PARAMETER 42
35	0000H	2	D. . . . . WORD PARAMETER 36
38	0000H	2	D. . . . . WORD PARAMETER 39
2			DCL. . . . . LITERALLY
213	0000H		DECODELINE . . . . PROCEDURE EXTERNAL(117) STACK=0000H 334

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 44  0000H       DECOUT . . . . . PROCEDURE EXTERNAL(11) STACK=0000H      287  290
  4               DELETEDSYMB. . . LITERALLY
 83  0000H       DELETEFILE . . . PROCEDURE EXTERNAL(28) STACK=0000H
194  0000H    2  DEST . . . . . . WORD PARAMETER       195
137  0000H    1  DEV. . . . . . . BYTE PARAMETER       138
 20  0000H       DIGIT. . . . . . PROCEDURE BYTE EXTERNAL(3) STACK=0000H
 71  0000H    1  DISKNUMBER . . . BYTE PARAMETER       72
215  0000H    1  DISKREADERRTEXT. BYTE ARRAY(1) EXTERNAL(109)
215  0000H    1  DISKWRITEERRTX   BYTE ARRAY(1) EXTERNAL(110)
 97  0000H    2  DMAADDRESS . . . WORD PARAMETER       98
  4               DOUBLEDEFINED. . LITERALLY
 10               DOUBLEDEFLAB . . LITERALLY
 10               DOUBLEDEFSYMB. . LITERALLY
 10               DOUBLEDEFVAR . . LITERALLY
  5               DWRD . . . . . . LITERALLY
177  0000H       EJECT. . . . . . PROCEDURE EXTERNAL(68) STACK=0000H
  2               ELSEDO . . . . . LITERALLY
146  0000H       EMITCODEBYTE . . PROCEDURE EXTERNAL(55) STACK=0000H
142  0000H       EMITINIT . . . . PROCEDURE EXTERNAL(53) STACK=0000H      268
144  0000H       EMITTERMINATE. . PROCEDURE EXTERNAL(54) STACK=0000H      281
161  0000H       EMPTYLINE. . . . PROCEDURE BYTE EXTERNAL(61) STACK=0000H
 56  0000H    2  ENDBUF . . . . . WORD EXTERNAL(17)
  2               ENDCASE. . . . . LITERALLY
  2               ENDDO. . . . . . LITERALLY
  2               ENDFOREVER . . . LITERALLY       242
  2               ENDIF. . . . . . LITERALLY       305
  2               ENDMODULE. . . . LITERALLY
  2               ENDOFFILE. . . . LITERALLY
 10               ENDOFLINEERR . . LITERALLY
180  0000H    2  ENDOFSYMBTAB . . WORD EXTERNAL(70)        279
  2               ENDPROC. . . . . LITERALLY
215  0000H    1  ENDTEXT. . . . . BYTE ARRAY(1) EXTERNAL(104)        286
  2               ENDWHILE . . . . LITERALLY
197  0000H       ENTERATTRIBUTES. . PROCEDURE EXTERNAL(77) STACK=0000H
212  0000H    1  EOFSET . . . . . BYTE EXTERNAL(92)        297  300  326  329
 35  0000H       EQUAL. . . . . . PROCEDURE BYTE EXTERNAL(8) STACK=0000H
209  0000H       ERRMSG . . . . . PROCEDURE EXTERNAL(81) STACK=0000H
209  0000H    1  ERRNO. . . . . . BYTE PARAMETER       210
  4               ERROR. . . . . . LITERALLY
212  0000H    1  ERRORPRINTED . . BYTE EXTERNAL(93)        280  333
212  0000H    2  ERRORS . . . . . WORD EXTERNAL(91)        247  287
  2               FALSE. . . . . . LITERALLY       232  242  248  254  259  274  280  300  333  335
 53  0000H    1  FCB. . . . . . . BYTE ARRAY(1) EXTERNAL(14)
 54  0000H    1  FCB16. . . . . . BYTE ARRAY(1) EXTERNAL(15)
 33  0000H    2  FCBADDRESS . . . WORD PARAMETER       34
 92  0000H    2  FCBADDRESS . . . WORD PARAMETER       93
 89  0000H    2  FCBADDRESS . . . WORD PARAMETER       90
 86  0000H    2  FCBADDRESS . . . WORD PARAMETER       87
 80  0000H    2  FCBADDRESS . . . WORD PARAMETER       81
 77  0000H    2  FCBADDRESS . . . WORD PARAMETER       78
 74  0000H    2  FCBADDRESS . . . WORD PARAMETER       75
 14  0000H    2  FCBADR . . . . . WORD PARAMETER       15
 14  0000H       FILEABORT. . . . PROCEDURE EXTERNAL(1) STACK=0000H
  3               FILEISTRUCTURE . LITERALLY
  3               FILEOSTRUCTURE . LITERALLY
140  0000H       FILESETUP. . . . PROCEDURE BYTE EXTERNAL(52) STACK=0000H      310
 10               FILESYNTERR. . . LITERALLY
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 17  0000H       FILL . . . . . .  PROCEDURE EXTERNAL(2) STACK=0000H       246
137  0000H   2   FILNAM . . . . . .  WORD PARAMETER      138
137  0000H   2   FILTYP . . . . . .  WORD PARAMETER      138
200  0000H       FINDCODEMACRO. . .  PROCEDURE BYTE EXTERNAL(78) STACK=0000H
191  0000H       FINDSYMBOL . . . .  PROCEDURE BYTE EXTERNAL(75) STACK=0000H
 10              FIRSTITEM. . . . .  LITERALLY
295  0004H   1   FLAG . . . . . .  BYTE PARAMETER AUTOMATIC      296  301
  2              FOREVER. . . . . .  LITERALLY      235
  2              FORMFEED . . . . .  LITERALLY
179  0000H   2   FREEPT . . . . . .  WORD EXTERNAL(69)        279
212  0000H   1   FULLSYMBTAB. . . .  BYTE EXTERNAL(94)
 47  0000H   1   FUNC . . . . . .  BYTE PARAMETER      48
 50  0000H   1   FUNC . . . . . .  BYTE PARAMETER      51
194  0000H       GETATTRIBUTES. . .  PROCEDURE EXTERNAL(76) STACK=0000H
213  0000H       GLOBALINIT . . . .  PROCEDURE EXTERNAL(99) STACK=0000H      308
212  0000H   5   HELP . . . . . .  BYTE ARRAY(5) EXTERNAL(97)         287  288  290  291
 38  0000H       HEX1OUT. . . . . .  PROCEDURE EXTERNAL(9) STACK=0000H
 41  0000H       HEX2OUT. . . . . .  PROCEDURE EXTERNAL(10) STACK=0000H
212  0000H   1   I. . . . . .  BYTE EXTERNAL(98)        237  239  241
  4              IDENT. . . . . .  LITERALLY
137  0000H       IFILESETUP . . . .  PROCEDURE EXTERNAL(51) STACK=0000H
212  0000H   1   IFLEVEL. . . . . .  BYTE EXTERNAL(96)        249
212  0000H   1   IFLIST . . . . . .  BYTE EXTERNAL(87)        250
 10              IFPARERR . . . . .  LITERALLY
 10              ILLEGALMACRO . . .  LITERALLY
 10              ILLEGALPSEUDO. . .  LITERALLY
 10              ILLEXPRELEM. . . .  LITERALLY
 10              ILLIOPER . . . . .  LITERALLY
295  0232H  44   INCLUDECLOSE . . .  PROCEDURE STACK=0006H        335  347
212  0000H   1   INCLUDEON. . . . .  BYTE EXTERNAL(95)        248  297  300
  3              INDEXREGBIT. . . .  LITERALLY
  3              INDEXREGCOUNT. . .  LITERALLY
 50  0000H   2   INFO . . . . . .  WORD PARAMETER      51
 47  0000H   2   INFO . . . . . .  WORD PARAMETER      48
113  0000H       ININCLUDEBYTE. . .  PROCEDURE BYTE EXTERNAL(39) STACK=0000H
  2              INIT . . . . . .  LITERALLY
215  0000H   1   INITIALS . . . . .  BYTE ARRAY(1) EXTERNAL(102)
111  0000H       INSOURCEBYTE . . .  PROCEDURE BYTE EXTERNAL(38) STACK=0000H
 10              INSTRERR . . . . .  LITERALLY
 95  0000H       INTERROGATEDISK. .  PROCEDURE BYTE EXTERNAL(32) STACK=0000H
  3              IREGBIT. . . . . .  LITERALLY
  3              IREGCOUNT. . . . .  LITERALLY
  4              LAB. . . . . .  LITERALLY
 10              LABOUTOFRANGE. . .  LITERALLY
  8              LEFTBRACKET. . . .  LITERALLY
 23  0000H       LETTER . . . . . .  PROCEDURE BYTE EXTERNAL(4) STACK=0000H
  2              LF . . . . . .  LITERALLY
206  0000H   1   LG . . . . . .  BYTE PARAMETER      207
203  0000H   1   LG . . . . . .  BYTE PARAMETER      204
200  0000H   1   LG . . . . . .  BYTE PARAMETER      201
191  0000H   1   LG . . . . . .  BYTE PARAMETER      192
188  0000H   1   LG . . . . . .  BYTE PARAMETER      189
185  0000H   1   LG . . . . . .  BYTE PARAMETER      186
  2              LIT. . . . . .  LITERALLY      2  3  4  5  6  7  8  9  10
138  0000H   2   MACDEFPT . . . . .  WORD PARAMETER      139
  1  0002H 203   MAINP. . . . . .  PROCEDURE STACK=0010H
215  0000H   1   MAKEERRTEXT. . . .  BYTE ARRAY(1) EXTERNAL(111)
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212  0000H    1  MAXCOL . . . . . .  BYTE EXTERNAL(88)          255  257
     0000H       MEMORY . . . . . .  BYTE ARRAY(0)         279
 10              MISSIFERR. . . . .  LITERALLY
 10              MISSINGPSEUDO. . .  LITERALLY
 10              MISSINSTR. . . . .  LITERALLY
 10              MISSSEGMINFO . . .  LITERALLY
 10              MISSTYPEINFO . . .  LITERALLY
 47  0000H       MON1 . . . . . .  PROCEDURE EXTERNAL(12) STACK=0000H
 50  0000H       MON2 . . . . . .  PROCEDURE BYTE EXTERNAL(13) STACK=0000H
 35  0000H    1  N. . . . . .  BYTE PARAMETER         36
 17  0000H    1  N. . . . . .  BYTE PARAMETER         18
 44  0000H    2  N. . . . . .  WORD PARAMETER         45
 41  0000H    2  N. . . . . .  WORD PARAMETER         42
 38  0000H    1  N. . . . . .  BYTE PARAMETER         39
  4              NEGLECTED. . . . .  LITERALLY
 10              NEGLECTERR . . . .  LITERALLY
 10              NESTEDIFERR. . . .  LITERALLY
 10              NESTEDINCLUDEERR .  LITERALLY
203  0000H       NEWCMBODY. . . . .  PROCEDURE BYTE EXTERNAL(79) STACK=0000H
206  0000H       NEWCMNAME. . . . .  PROCEDURE BYTE EXTERNAL(80) STACK=0000H
188  0000H       NEWMACRO . . . . .  PROCEDURE BYTE EXTERNAL(74) STACK=0000H
185  0000H       NEWSYMBOL. . . . .  PROCEDURE BYTE EXTERNAL(73) STACK=0000H
  5              NIL. . . . . .  LITERALLY
215  0000H    1  NO . . . . . .  BYTE EXTERNAL(101)         241
  3              NOOVERCOUNT. . . .  LITERALLY
  3              NOOVERRIDEBIT. . .  LITERALLY
  9              NULL . . . . . .  LITERALLY
  4              NUMBER . . . . . .  LITERALLY
  8              OAND . . . . . .  LITERALLY
  8              OEQ. . . . . .  LITERALLY
  8              OGE. . . . . .  LITERALLY
  8              OGT. . . . . .  LITERALLY
  8              OLAST. . . . . .  LITERALLY
  8              OLE. . . . . .  LITERALLY
  8              OLENGTH. . . . . .  LITERALLY
  8              OLT. . . . . .  LITERALLY
  8              OMOD . . . . . .  LITERALLY
  8              ONE. . . . . .  LITERALLY
  8              ONOT . . . . . .  LITERALLY
  8              OOFFSET. . . . . .  LITERALLY
  8              OOR. . . . . .  LITERALLY
215  0000H    1  OPENERRTEXT. . . .  BYTE ARRAY(1) EXTERNAL(108)
 74  0000H       OPENFILE . . . . .  PROCEDURE BYTE EXTERNAL(25) STACK=0000H
119  0000H       OPENHEX. . . . . .  PROCEDURE EXTERNAL(42) STACK=0000H       227
117  0000H       OPENINCLUDE. . . .  PROCEDURE EXTERNAL(41) STACK=0000H
225  00DEH   14  OPENOUTPUTFILES. .  PROCEDURE STACK=0004H         316
121  0000H       OPENPRINT. . . . .  PROCEDURE EXTERNAL(43) STACK=0000H       226
 77  0000H       OPENROFILE . . . .  PROCEDURE BYTE EXTERNAL(26) STACK=0000H
115  0000H       OPENSOURCE . . . .  PROCEDURE EXTERNAL(40) STACK=0000H       315
123  0000H       OPENSYMBOL . . . .  PROCEDURE EXTERNAL(44) STACK=0000H       228
  3              OPERANDSTRUC . . .  LITERALLY
  4              OPERATOR . . . . .  LITERALLY
 10              OPMISMATCH . . . .  LITERALLY
  8              OPTR . . . . . .  LITERALLY
  8              OSEG . . . . . .  LITERALLY
  8              OSHL . . . . . .  LITERALLY
  8              OSHORT . . . . . .  LITERALLY
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  8              OSHR . . . . . .  LITERALLY
  8              OTYPE. . . . . .  LITERALLY
102  0000H       OUTHEXBYTE . . . .  PROCEDURE EXTERNAL(35) STACK=0000H
105  0000H       OUTPRINTBYTE . . .  PROCEDURE EXTERNAL(36) STACK=0000H
103  0000H       OUTSYMBOLBYTE. . .  PROCEDURE EXTERNAL(37) STACK=0000H
 11  0000H       OUTTEXT. . . . . .  PROCEDURE EXTERNAL(0) STACK=0000H      236  271  275  286  288  289
                                      291  309  312
  8              OXOR . . . . . .  LITERALLY
215  0000H    1  PAGETEXT . . . . .  BYTE ARRAY(1) EXTERNAL(103)
215  0000H    1  PARERRTEXT . . . .  BYTE ARRAY(1) EXTERNAL(107)      312
212  0000H    1  PASS . . . . . .  BYTE EXTERNAL(82)      317  318  319  330  340
253  015AH   38  PASS0INIT. . . . .  PROCEDURE STACK=000EH      320
270  0198H   12  PASS0TERMINATE . .  PROCEDURE STACK=0006H      341
215  0000H    1  PASS0TEXT. . . . .  BYTE ARRAY(1) EXTERNAL(115)      271
262  0180H    8  PASS1INIT. . . . .  PROCEDURE STACK=000EH      321
273  01A4H   17  PASS1TERMINATE . .  PROCEDURE STACK=0006H      342
215  0000H    1  PASS1TEXT. . . . .  BYTE ARRAY(1) EXTERNAL(116)      275
265  0188H   16  PASS2INIT. . . . .  PROCEDURE STACK=000EH      322
277  01B5H  125  PASS2TERMINATE . .  PROCEDURE STACK=0008H      343
  7              PCODEMACRO . . . .  LITERALLY
  7              PCSEG. . . . . .  LITERALLY
  7              PDB. . . . . .  LITERALLY
  7              PDBIT. . . . . .  LITERALLY
  7              PDD. . . . . .  LITERALLY
  7              PDSEG. . . . . .  LITERALLY
  7              PDW. . . . . .  LITERALLY
  7              PEJECT . . . . . .  LITERALLY
  7              PEND . . . . . .  LITERALLY
  7              PENDIF . . . . . .  LITERALLY
  7              PENDM. . . . . .  LITERALLY
  7              PEQU . . . . . .  LITERALLY
  7              PESEG. . . . . .  LITERALLY
  7              PIF. . . . . .  LITERALLY
  7              PIFLIST. . . . . .  LITERALLY
  7              PINCLUDE . . . . .  LITERALLY
  7              PLIST. . . . . .  LITERALLY
  7              PMODRM . . . . . .  LITERALLY
  7              PNOIFLIST. . . . .  LITERALLY
  7              PNOLIST. . . . . .  LITERALLY
  7              PNOSEGFIX. . . . .  LITERALLY
  7              PORG . . . . . .  LITERALLY
  7              PPAGESIZE. . . . .  LITERALLY
  7              PPAGEWIDTH . . . .  LITERALLY
  7              PRB. . . . . .  LITERALLY
  7              PRELB. . . . . .  LITERALLY
  7              PRELW. . . . . .  LITERALLY
166  0000H       PRINTCRLF. . . . .  PROCEDURE EXTERNAL(63) STACK=0000H
212  0000H    1  PRINTDEVICE. . . .  BYTE EXTERNAL(89)      256  283
  9              PRINTER. . . . . .  LITERALLY
172  0000H       PRINTINIT. . . . .  PROCEDURE EXTERNAL(66) STACK=0000H
168  0000H       PRINTNEWPAGE . . .  PROCEDURE EXTERNAL(64) STACK=0000H
212  0000H    1  PRINTON. . . . . .  BYTE EXTERNAL(85)      246  259  266  274
163  0000H       PRINTSINGLEBYTE. .  PROCEDURE EXTERNAL(62) STACK=0000H
170  0000H       PRINTSOURCELINE. .  PROCEDURE EXTERNAL(65) STACK=0000H
212  0000H    1  PRINTSWITCHOFF . .  BYTE EXTERNAL(86)      248
174  0000H       PRINTTERMINATE . .  PROCEDURE EXTERNAL(67) STACK=0000H      284
  2              PROC . . . . . .  LITERALLY      26   29   38   41   44  102  105  108  111  113  115
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                                        117  119  121  123  125  127  129  131  133  135  137  140  142  144
                                        146  149  151  153  155  158  161  163  166  168  170  172  174  177
                                        181  183  185  188  191  194  197  200  203  206  209  216  230  245
                                        253  262  265  270  273  277  295
  7              PRS. . . . . .   LITERALLY
  7              PRW. . . . . .   LITERALLY
  7              PSEGFIX. . . . .   LITERALLY
  4              PSEUDO . . . . .   LITERALLY
 10              PSEUDOOPERR. . . .   LITERALLY
  7              PSIMFORM . . . . .   LITERALLY
  7              PSSEG. . . . . .   LITERALLY
 17  0000H    2  PT . . . . . .   WORD PARAMETER        18
  7              PTITLE . . . . . .   LITERALLY
203  0000H    2  PTR. . . . . .   WORD PARAMETER        204
  6              RAH. . . . . .   LITERALLY
  6              RAL. . . . . .   LITERALLY
  6              RAX. . . . . .   LITERALLY
  6              RBH. . . . . .   LITERALLY
  6              RBL. . . . . .   LITERALLY
  6              RBP. . . . . .   LITERALLY
  6              RBX. . . . . .   LITERALLY
  6              RCH. . . . . .   LITERALLY
  6              RCL. . . . . .   LITERALLY
  6              RCS. . . . . .   LITERALLY        251
  6              RCX. . . . . .   LITERALLY
  6              RDH. . . . . .   LITERALLY
  6              RDI. . . . . .   LITERALLY
  6              RDL. . . . . .   LITERALLY
  6              RDS. . . . . .   LITERALLY
  6              RDX. . . . . .   LITERALLY
 59  0000H        READCONSOLE. . . .   PROCEDURE BYTE EXTERNAL(19) STACK=0000H       233  237
 86  0000H        READRECORD . . . .   PROCEDURE BYTE EXTERNAL(29) STACK=0000H
  2              REENT. . . . . .   LITERALLY
  4              REG. . . . . .   LITERALLY
  6              RES. . . . . .   LITERALLY
200  0000H    2  RESULT . . . . . .   WORD PARAMETER        201
191  0000H    2  RESULT . . . . . .   WORD PARAMETER        192
185  0000H    2  RESULT . . . . . .   WORD PARAMETER        186
206  0000H    2  RETURNPTR. . . . .   WORD PARAMETER        207
127  0000H        REWINDSOURCE . . .   PROCEDURE EXTERNAL(46) STACK=0000H
  8              RIGHTBRACKET . . .   LITERALLY
  6              RSI. . . . . .   LITERALLY
  6              RSP. . . . . .   LITERALLY
  6              RSS. . . . . .   LITERALLY
 35  0000H    2  S. . . . . .   WORD PARAMETER        36
151  0000H        SCAN . . . . . .   PROCEDURE EXTERNAL(57) STACK=0000H       303  304  325  336
149  0000H        SCANINIT . . . . .   PROCEDURE EXTERNAL(56) STACK=0000H       324
  3              SEGMBIT. . . . . .   LITERALLY
  3              SEGMCOUNT. . . . .   LITERALLY
  3              SEGTYPEBIT . . . .   LITERALLY
  3              SEGTYPECOUNT . . .   LITERALLY
 71  0000H        SELECTDISK . . . .   PROCEDURE EXTERNAL(24) STACK=0000H
 97  0000H        SETDMAADDRESS. . .   PROCEDURE EXTERNAL(33) STACK=0000H
212  0000H    1  SIMFORM. . . . . .   BYTE EXTERNAL(90)         254
153  0000H        SKIPRESTOFLINE . .   PROCEDURE EXTERNAL(58) STACK=0000H
158  0000H        SKIPUNTIL. . . . .   PROCEDURE BYTE EXTERNAL(60) STACK=0000H
197  0000H    2  SOURCE . . . . . .   WORD PARAMETER        198
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   2                  SPACE. . . . . .   LITERALLY
   4                  SPEC . . . . . .   LITERALLY
 155  0000H           SPECIALTOKEN . . .  PROCEDURE BYTE EXTERNAL(59) STACK=0000H
 200  0000H     2     STRADR . . . . . .  WORD PARAMETER       201
 191  0000H     2     STRADR . . . . . .  WORD PARAMETER       192
 188  0000H     2     STRADR . . . . . .  WORD PARAMETER       189
 185  0000H     2     STRADR . . . . . .  WORD PARAMETER       186
   4                  STRING . . . . . .  LITERALLY
   2                  STRUC. . . . . .   LITERALLY
 197  0000H     2     SYMBADR. . . . . .  WORD PARAMETER       198
 194  0000H     2     SYMBADR. . . . . .  WORD PARAMETER       195
 215  0000H     1     SYMBFULLERRTEXT. .  BYTE ARRAY(1) EXTERNAL(113)
 183  0000H           SYMBINIT . . . . .  PROCEDURE EXTERNAL(72) STACK=0000H       258
   4                  SYMBOL . . . . . .  LITERALLY
   3                  SYMBOLHEAD . . . .  LITERALLY
   3                  SYMBOLSTRUC. . . .  LITERALLY
 131  0000H           SYMBTERMINATE. . .  PROCEDURE EXTERNAL(71) STACK=0000H       232
  57  0000H           SYSTEMRESET. . . .  PROCEDURE EXTERNAL(18) STACK=0000H       313  348
  11  0000H     2     T. . . . . .       WORD PARAMETER        12
   2                  TAB. . . . . .     LITERALLY
  55  0000H     1     TBUFF. . . . . .   BYTE ARRAY(1) EXTERNAL(16)
  14  0000H     2     TEXTADR. . . . . .  WORD PARAMETER        15
   2                  THENDO . . . . . .  LITERALLY       297  301  310  327
 158  0000H     1     TOK. . . . . .     BYTE PARAMETER       159
 155  0000H     1     TOK. . . . . .     BYTE PARAMETER       156
   2                  TRUE . . . . . .   LITERALLY       235  240  250  266  329  337
 146  0000H     1     TYP. . . . . .     BYTE PARAMETER       147
   3                  TYPEBIT. . . . . .  LITERALLY
   3                  TYPECOUNT. . . . .  LITERALLY
   4                  UDEFSYMB . . . . .  LITERALLY
  10                  UDEFSYMBOL . . . .  LITERALLY
  32  0000H           UPPER. . . . . .   PROCEDURE BYTE EXTERNAL(7) STACK=0000H       237
 215  0000H     1     USBREAKTEXT. . . .  BYTE ARRAY(1) EXTERNAL(114)        236
 278  0000H     1     USEFACT. . . . . .  BYTE       279  284  290
 174  0000H     1     USEFACT. . . . . .  BYTE PARAMETER       175
 215  0000H     1     USEFACTOR. . . . .  BYTE ARRAY(1) EXTERNAL(105)        289
 230  00ECH    63     USERBREAK. . . . .  PROCEDURE BYTE STACK=0006H         327
   9                  VALIDDISK. . . . .  LITERALLY
   4                  VARIABLE . . . . .  LITERALLY
 245  012BH    47     VARINIT. . . . . .  PROCEDURE STACK=000AH         260  263  267
  69  0000H           VERSION. . . . . .  PROCEDURE WORD EXTERNAL(23) STACK=0000H
   5                  WRD. . . . . .     LITERALLY
  61  0000H           WRITECONSOLE . . .  PROCEDURE EXTERNAL(20) STACK=0000H       292
  64  0000H           WRITELIST. . . . .  PROCEDURE EXTERNAL(21) STACK=0000H
  89  0000H           WRITERECORD. . . .  PROCEDURE BYTE EXTERNAL(30) STACK=0000H
 215  0000H     1     YES. . . . . .     BYTE EXTERNAL(100)       239
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MODULE INFORMATION:

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CODE AREA SIZE     = 025EH    606D
CONSTANT AREA SIZE = 0000H     0D
VARIABLE AREA SIZE = 0001H     1D
MAXIMUM STACK SIZE = 0010H    16D
932 LINES READ
0 PROGRAM ERROR(S)
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END OF PL/M-86 COMPILATION

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